

# SQL Cheat Sheet: Views, Stored Procedures and Transactions



## Views

Topic	Syntax	Description	Example
Create View	<pre>CREATE VIEW view_name AS SELECT column1, column2, ... FROM table_name WHERE condition;</pre>	A CREATE VIEW is an alternative way of representing data that exists in one or more tables.	<pre>CREATE VIEW EMP_SALARY AS SELECT EMP_ID, F_NAME, L_NAME, B_DATE, SEX, SALARY FROM EMPLOYEES;</pre>
Update a View	<pre>CREATE OR REPLACE VIEW view_name AS SELECT column1, column2, ... FROM table_name WHERE condition;</pre>	The CREATE OR REPLACE VIEW command updates a view.	<pre>CREATE OR REPLACE VIEW EMP_SALARY AS SELECT EMP_ID, F_NAME, L_NAME, B_DATE, SEX, JOB_TITLE, MIN_SALARY, MAX_SALARY FROM EMPLOYEES, JOBS WHERE EMPLOYEES.JOB_ID = JOBS.JOB_IDENT;</pre>
Drop a View	<pre>DROP VIEW view_name;</pre>	Use the DROP VIEW statement to remove a view from the database.	<pre>DROP VIEW EMP_SALARY;</pre>

## Stored Procedures in IBM Db2 using SQL

Stored Procedures	<pre>--#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME  LANGUAGE  BEGIN  END @</pre>	<p>A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.</p> <p>The default terminator for a stored procedure is semicolon(;). To set a different terminator we use SET TERMINATOR clause followed by the terminator such as '@'.</p>	<pre>--#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL  LANGUAGE SQL READS SQL DATA  DYNAMIC RESULT SETS 1 BEGIN  DECLARE C1 CURSOR WITH RETURN FOR  SELECT * FROM PETSALe;  OPEN C1;  END @</pre>

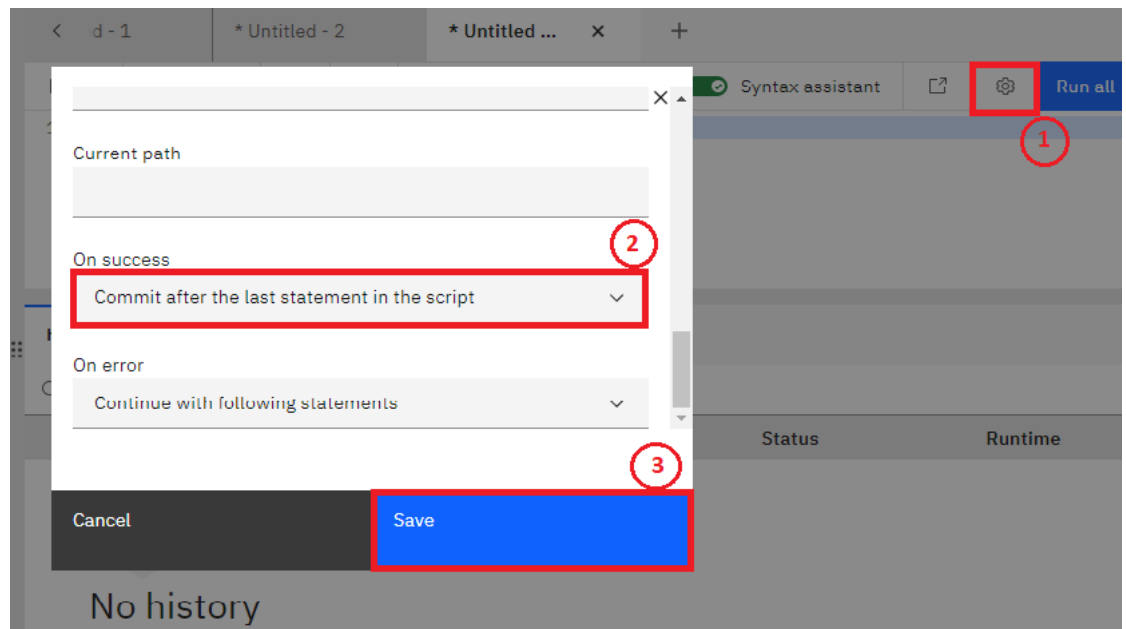
## Stored Procedures in MySQL using phpMyAdmin

Stored Procedures	<pre>DELIMITER //  CREATE PROCEDURE PROCEDURE_NAME  BEGIN  END //  DELIMITER ;</pre>	<p>A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.</p> <p>The default terminator for a stored procedure is semicolon (;). To set a different terminator we use DELIMITER clause followed by the terminator such as \$\$ or //.</p>	<pre>DELIMITER //  CREATE PROCEDURE RETRIEVE_ALL()  BEGIN  SELECT * FROM PETSALe;  END //  DELIMITER ;</pre>

## Transactions with Db2

Commit command	<p>A COMMIT command is used to persist the changes in the database.</p> <pre>COMMIT;</pre> <p>The default terminator for a COMMIT command is semicolon (;).</p>	<pre>CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20), Salary INT, Age INT); INSERT INTO employee( ID, Name, City, Salary, Age) VALUES( 1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riy Bangalor', 82000, 29); SELECT *FROM employee; COMMIT;</pre>	
	<p>A ROLLBACK command is used to rollback the transactions which are not saved in the database.</p> <p>The default terminator for a ROLLBACK command is</p>	<p>As auto-commit is enabled by default, all transactions will be committed. We need to disable this opti see how rollback works.</p> <p>For db2, we have to disable auto-commit manually. Click the gear icon located on the right side of the Assistant window. Next, select the "On Success" drop-down and choose "commit after the last statement script" Remember to save your changes!</p>	

semicolon  
(;).



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INSERT INTO employee VALUES (3, 'Swetha Tiwari', 'Kanpur', 38000, 38);
SELECT *FROM employee;
ROLLBACK;
SELECT *FROM employee;
```

## Transactions with MySQL

Commit command	COMMIT;	<p>A COMMIT command is used to persist the changes in the database.</p> <p>The default terminator for a COMMIT command is semicolon (;).</p>	<pre>CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20), Salary INT, Age INT);  START TRANSACTION;  INSERT INTO employee( ID, Name, City, Salary, Age) VALUES( 1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary', 'Bangalor', 82000, 29);  SELECT *FROM employee; COMMIT;</pre> <p>As auto-commit is enabled by default, all transactions will be committed. We need to disable this option to see how rollback works. For MySQL use the command "SET autocommit = 0;"</p>
Rollback command	ROLLBACK;	<p>A ROLLBACK command is used to rollback the transactions which are not saved in the database.</p> <p>The default terminator for a ROLLBACK command is semicolon (;).</p>	<pre>INSERT INTO employee VALUES (3, 'Swetha Tiwari', 'Kanpur', 38000, 38);  SELECT *FROM employee; ROLLBACK; SELECT *FROM employee;</pre>

## Db2 Transactions using Stored Procedure

Commit command	<pre>--#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME BEGIN COMMIT; END @</pre>	<p>A COMMIT command is used to persist the changes in the database.</p> <p>The default terminator for a COMMIT command is semicolon (;).</p>	<pre>--#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA  BEGIN  DECLARE SQLCODE INTEGER DEFAULT 0; DECLARE retcode INTEGER DEFAULT 0; DECLARE CONTINUE HANDLER FOR SQLEXCEPTION SET retcode = SQLCODE;  UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName = 'Rose';  UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose';  IF retcode &lt; 0 THEN ROLLBACK WORK;  ELSE COMMIT WORK;  END IF;  END @</pre>
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	<pre>--#SET TERMINATOR @  CREATE PROCEDURE PROCEDURE_NAME  BEGIN  ROLLBACK;  COMMIT;  END @</pre>	<pre>--#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA  BEGIN  DECLARE SQLCODE INTEGER DEFAULT 0; DECLARE retcode INTEGER DEFAULT 0; DECLARE CONTINUE HANDLER FOR SQLEXCEPTION SET retcode = SQLCODE;  UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName = 'Rose';  UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose';  IF retcode &lt; 0 THEN ROLLBACK WORK;  ELSE COMMIT WORK;  END IF;  END @</pre>
Rollback command		<p>A ROLLBACK command is used to rollback the transactions which are not saved in the database.</p> <p>The default terminator for a ROLLBACK command is semicolon (;).</p>

## MySQL Transactions using Stored Procedure

	<pre>DELIMITER //  CREATE PROCEDURE PROCEDURE_NAME  BEGIN  COMMIT;  END //  DELIMITER ;</pre>	<pre>DELIMITER //  CREATE PROCEDURE TRANSACTION_ROSE()  BEGIN  DECLARE EXIT HANDLER FOR SQLEXCEPTION BEGIN ROLLBACK; RESIGNAL; END;  START TRANSACTION; UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName = 'Rose';  UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose';  COMMIT;  END //</pre>
Commit command		<p>A COMMIT command is used to persist the changes in the database.</p> <p>The default terminator for a COMMIT command is semicolon (;).</p>
	<pre>DELIMITER //  CREATE PROCEDURE PROCEDURE_NAME  BEGIN  ROLLBACK;  COMMIT;  END //  DELIMITER ;</pre>	<pre>DELIMITER ; DELIMITER //  CREATE PROCEDURE TRANSACTION_ROSE()  BEGIN  DECLARE EXIT HANDLER FOR SQLEXCEPTION BEGIN ROLLBACK; RESIGNAL; END;  START TRANSACTION; UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName = 'Rose';  UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose';  COMMIT;  END //</pre>
Rollback command		<p>A ROLLBACK command is used to rollback the transactions which are not saved in the database.</p> <p>The default terminator for a ROLLBACK command is semicolon (;).</p>

## Author(s)

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## Changelog

Date	Version	Changed by	Change Description
2022-10-04	1.0	D.M.Naidu	Initial Version